

Aufgaben-Sammlung

MySql / Databases
DDL (ERD → Create / Drop..)

Last Changes: Walter Rothlin / Dec, 24th 2019

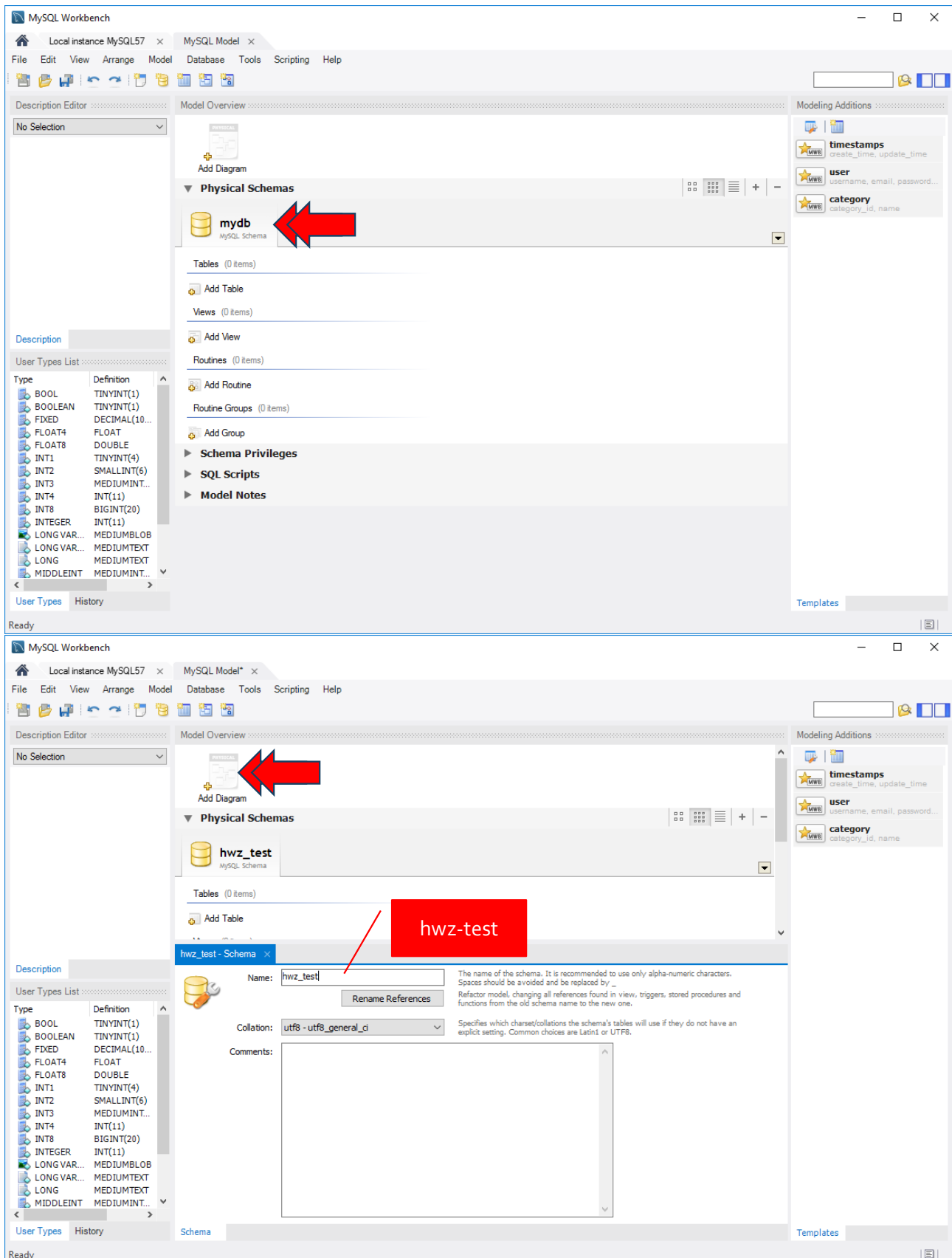
Index

DDL (Data Definition Language)	3
Create a model (ERD)	3
Draw a model (ERD)	4
Bedeutung der Constraints	4
Generate script from ERD-Model	5
Use script to create DB Objects	6
Attribute-Types	7

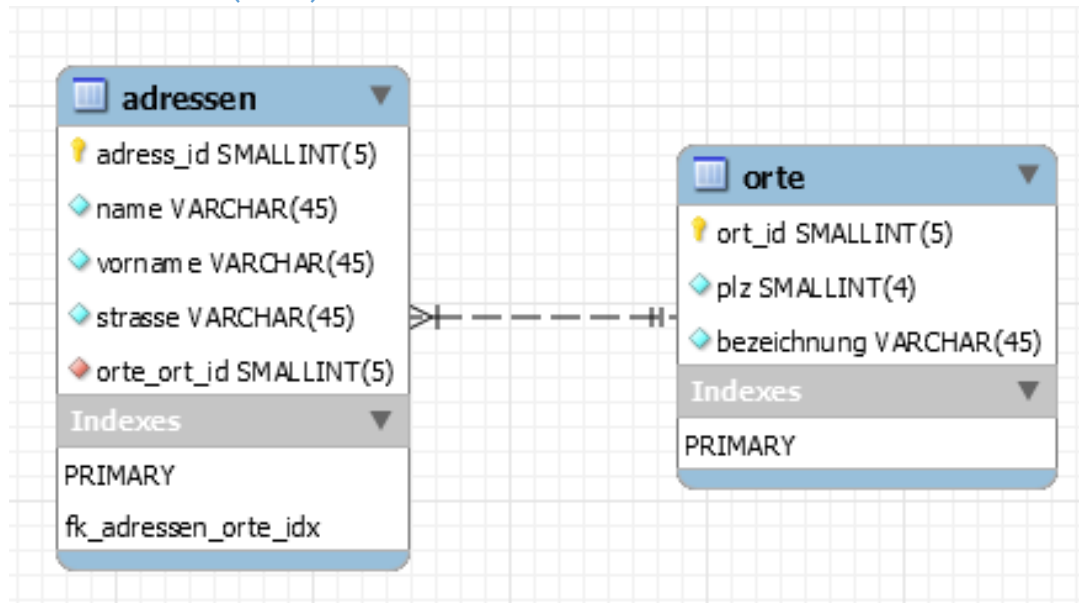
DDL (Data Definition Language)

Create a model (ERD)

In Workbench: File → New Model



Draw a model (ERD)



Doppel-Click **adressen**:

Table Name: <input type="text" value="adressen"/>		Schema: hwz_test								
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
adress_id	SMALLINT(5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
name	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
vorname	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
strasse	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
orte_ort_id	SMALLINT(5)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Doppel-Click **orte**:

Table Name: <input type="text" value="orte"/>		Schema: hwz_test								
Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
ort_id	SMALLINT(5)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
plz	SMALLINT(4)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
bezeichnung	VARCHAR(45)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

File → Save Model As.... Model_hwz_test

Bedeutung der Constraints

PK	Primary Key
NN	NOT NULL
UQ	Unique
B	Binary Data
UN	Unsigned
ZF	Zero Fill (Default 0 falls Numeric)
AI	Auto Increment
G	Generated

Generate script from ERD-Model

File → Export → Forward Engineer SQL...

Forward Engineer SQL Script

SQL Export Options

Filter Objects

Review SQL Script

SQL Export Options

Output SQL Script File: ...

Leave blank to view generated script but not save to a file.

SQL Options

- ☒ Generate DROP Statements Before Each CREATE Statement
- ☒ Generate DROP SCHEMA
- ☐ Skip Creation of FOREIGN KEYS
- ☐ Skip creation of FK Indexes as well
- ☐ Omit Schema Qualifier in Object Names
- ☐ Generate USE statements
- ☐ Generate Separate CREATE INDEX Statements
- ☐ Add SHOW WARNINGS After Every DDL Statement
- ☐ Do Not Create Users. Only Export Privileges
- ☐ Don't create view placeholder tables.
- ☐ Generate INSERT Statements for Tables
- ☐ Disable FK checks for inserts
- ☐ Create triggers after inserts

BackNextCancel

Forward Engineer SQL Script


SQL Export Options

Filter Objects

Review SQL Script


SQL Object Export Filter

To exclude objects of a specific type from the SQL Export, disable the corresponding checkbox. Press Show Filter and add objects or patterns to the ignore list to exclude them from the export.

☒ Export MySQL Table Objects


Show Filter

2 Total Objects, 2 Selected

☐ Export MySQL View Objects

Show Filter

0 Total Objects, 0 Selected

☐ Export MySQL Routine Objects

Show Filter

0 Total Objects, 0 Selected

☐ Export MySQL Trigger Objects

Show Filter

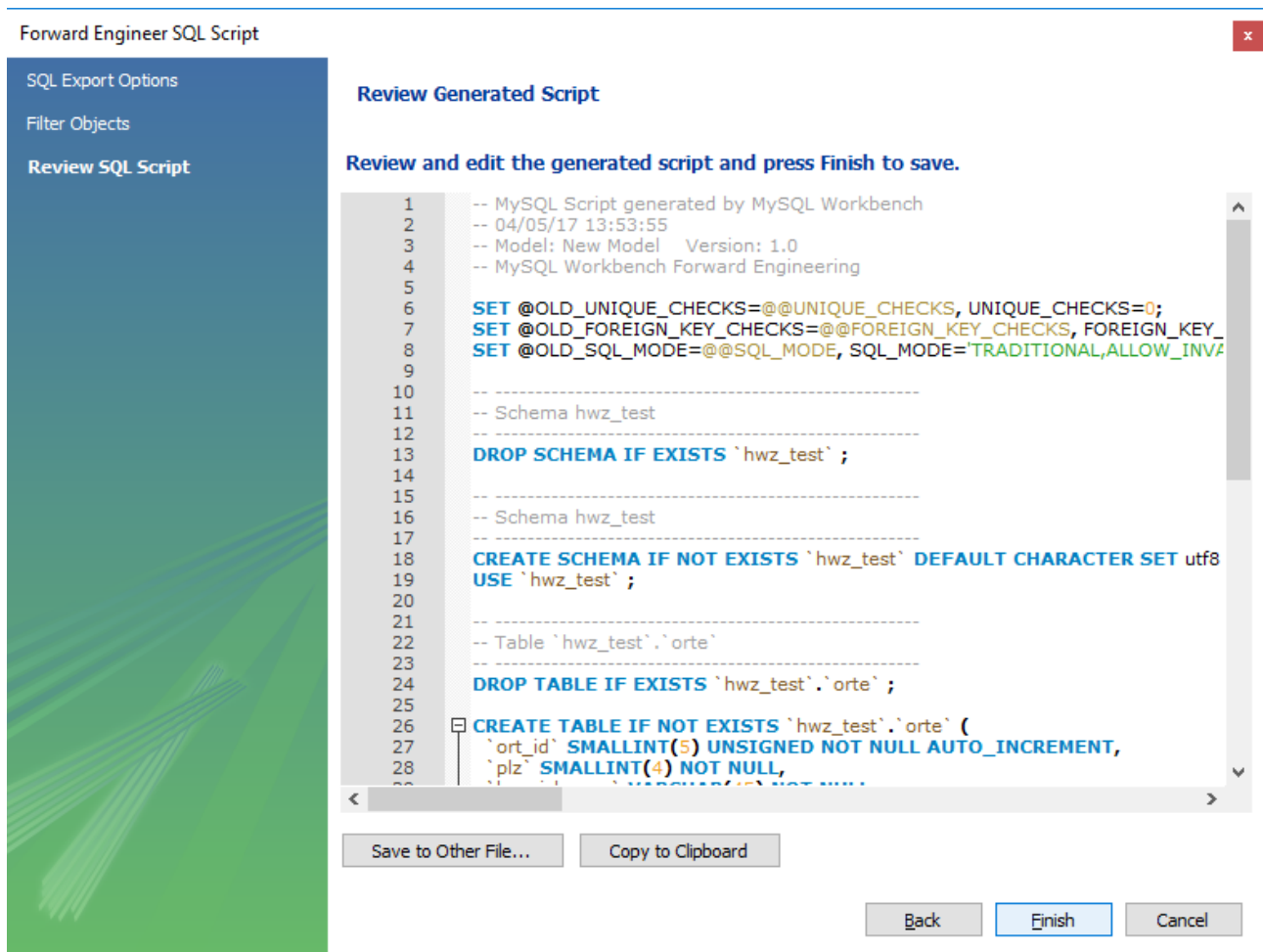
0 Total Objects, 0 Selected

☐ Export User Objects

Show Filter

0 Total Objects, 0 Selected

BackNextCancel



Use script to create DB Objects

File → Open SQL script

Execute script and refresh schema view

Attribute-Types

Type	Storage	Minimum Value	Maximum Value
	(Bytes)	(Signed/Unsigned)	(Signed/Unsigned)
TINYINT	1	-128	127
		0	255
SMALLINT	2	-32768	32767
		0	65535
MEDIUMINT	3	-8388608	8388607
		0	16777215
INT	4	-2147483648	2147483647
		0	4294967295
BIGINT	8	-9223372036854775808	9223372036854775807
		0	18446744073709551615